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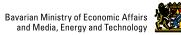## MUNICH CYBER SECURITY CONFERENCE 2017

Trust and Security for Digital Business and Connected Industries

Hotel Bayerischer Hof
Munich, February 16, 2017
2:00 – 7:00 pm
Followed by Reception and Networking Party

In cooperation with:

ZD.B CENTER DIGITISATION. BAVARIA

Bavarian Ministry of Economic Affairs
and Media, Energy and Technology

Munich Security Conference msc
Münchner Sicherheitskonferenz

This conference is sponsored by:

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Distinguished Guests,

Cyber security is a top priority for the Bavarian state government. As in the rest of the world, in Bavaria we have witnessed a rise in the number of cyber-crime incidents such as theft of commercial secrets and business information, personal data breaches and disruption of services or infrastructure. In 2015, the 13,000 cases reported in Bavaria caused losses of almost €11 million.

Since the adoption of the Bavarian Cyber Security Strategy in 2013, we have further stepped up our efforts to better protect users and companies. The recent actions of the Bavarian Ministry of Economic Affairs include the establishment of a new platform for cyber security at the Center Digitisation.Bavaria (ZD.B). This platform aims to strengthen cooperation and knowledge transfer between researchers, businesses and users in order to build a safer digital environment and to further enhance Bavaria's leading role in the security industry. The host of the Munich Cyber Security Conference, Security Network Munich, is an important partner within this platform, in which about 100 companies and research institutions form a unique public-private industry and research cluster.

In 2017 and 2018, the Bavarian state government will continue to strengthen the digital agenda of Bavaria and will provide up to €2.5 billion to implement its 'BAYERN DIGITAL' strategy. It is not without reason that in a European Commission study, Munich was named the top centre for ICT excellence in Europe.

I would like to thank Security Network Munich for organising the Munich Cyber Security Conference and I am delighted to welcome so many high-level experts. I would especially like to thank Ambassador Wolfgang Ischinger and EU Vice-President Andrus Ansip for their contributions to this event.

The issues of cyber security can only be tackled successfully when all relevant players cooperate. Working in isolation is not a reasonable approach. I therefore hope that today's conference and discussions will contribute to a more secure digital economy and I wish you all an interesting afternoon.

Ilse Aigner

Bavarian State Minister of Economic Affairs and Media, Energy and Technology
Deputy Minister-President of Bavaria

Ilse Aigner, MdL

Dear participants,

It is my great pleasure to welcome you to Security Network Munich's third Munich Cyber Security Conference. In my capacity as Chairman of the Munich Security Conference, I am delighted to host this event as Patron for the third consecutive year.

I cannot recall a Munich Security Conference, now in its 53rd year, that has taken place under more dire global circumstances. Today's conflicts and crises are more dangerous and severe than anything we have seen since World War II. The past three years in particular have exposed worrisome cracks in global security and stability, with the established liberal order many of us have taken for granted increasingly under threat from within and without. That is why, now more than ever, it is imperative to find ways to defend and strengthen the fundamental values of the West and the institutions of a rules-based international system.

On top of this alarming development, the risks in cyber space are only growing. We are now all vulnerable to cyber-attacks and digital threats. Moreover, in these days of disinformation, leaks affecting the credibility of political leaders are eroding the public's trust in established leadership. This confronts us with critical questions: Do we have an adequate security strategy for the digital age? Are we doing enough to protect ourselves from the threats that it poses? What more can we do to arm ourselves against misinformation and propaganda?

A major challenge lies in underpinning developments in the field of cyberwarfare with an international framework of rules. Clearly, in order to keep the threats from cyberspace under control and to contain information warfare operations, international law has to apply to both the online and offline worlds. We urgently need to find common responses – in Europe and worldwide. Besides formal international rules, this requires greater collaboration and joint measures between business and public institutions.

A top priority must be the training and recruitment of IT specialists. If we do not manage to educate and attract these specialists, developers and programmers, the implementation of even basic plans for new cybersecurity structures will be impossible. It is essential that education reflects the digital reality. Beyond the training of a new generation of IT specialists, we also have to invest more in teaching every member of society the necessary digital and information skills.

The demand for a more qualified workforce also illustrates another major challenge: Policy makers often lack the necessary expertise in the field of digitisation and cyber security. In order to ensure responsible leadership, politicians and policy makers have to better grasp these tremendous challenges. These challenges will not simply be solved by more cyber experts in our political institutions; they also necessitate an extensive cross-sectoral dialogue. Only through the fostering of closer collaboration between the political, military, scientific and business sectors, will we be able to successfully meet the challenges of the digital age and to protect our freedom and our democracies.

With this in mind, I hope you all enjoy this thought-provoking Conference, and I also hope that the discussions and exchanges of ideas that take place contribute in their own way to a brighter future.

Wolfgang Ischinger

Ambassador Wolfgang Ischinger is Chairman of the Munich Security Conference and Patron of the Munich Cyber Security Conference.

**Ambassador
Wolfgang Ischinger**

AGENDA FOR THE THIRD INTERNATIONAL MUNICH CYBER SECURITY CONFERENCE (MCSC) 2017

Time	Session	Speaker
2:00 pm	**Welcome**	Dr. Walter Schlebusch Chairman, Security Network Munich (Munich) **Conference Moderator:** Ulrich Schäfer Chief Business Editor, Süddeutsche Zeitung (Munich)
2:05 pm	**Opening Address**	His Excellency Andrus Ansip Vice President, EU Commission and former Prime Minister of Estonia (Brussels)
2:20 pm	**Industry Keynote**	Dr. Helmuth Ludwig Global Head of Information Technology, Siemens (Munich)
2:35 pm	**Impulse Speech**	Prof. Dieter Kempf President, Federation of German Industries, BDI (Berlin)
2:45 pm	**Panel 1** **Initiatives and the Role of Government Regarding Data and Cyber Security**	Moderator: John Higgins Director General, Digital Europe (Brussels) Prof. Dieter Kempf President, Federation of German Industries, BDI (Berlin) Arne Schönbohm President, German Federal Agency for Information Security, BSI (Bonn) Dr. Jane Holl Lute Under-Secretary-General, United Nations (New York) Stefan Winners Executive Board Member, Hubert Burda Media (Munich)
3:45 pm	**Break**	
4:15 pm	**Impulse Speech**	Masayuki Yamamoto Group Senior Vice President, Factory Automation, Mitsubishi Electric Corp. (Tokyo)
4:25 pm	**Impulse Speech**	Steve Durbin Chairman, Information Security Forum, ISF (London)

4:35 pm	**Panel 2** **Cyber Threats and Counter Measures prevalent in Smart, Industrial and Critical Infrastructures**	Moderator: **Prof. Michael Dowling** University of Regensburg **Evert Dudok** General Manager, Airbus Defence and Space (Munich) **Dr. Rolf Reinema** Head of Technology-Field IT-Security, Siemens (Munich) **Dr. Elmar Pritsch** CIO, Bosch (Stuttgart) **Andrew Ginter** Vice President Industrial Security, Waterfall Security Solutions (Rosh Ha'ayin, Israel) **Ian Levy** Technical Director, National Cyber Security Centre (part of GCHQ) (London)
5:30 pm	**Break**	
5:45 pm	**Spot On** **Eugene Kaspersky and Prof. Thomas Rid reflect on the future of digital security**	Moderator: **Dr. Gregor Peter Schmitz** Bureau Chief, WirtschaftsWoche (Berlin) **Eugene Kaspersky** Chairman and CEO, Kaspersky Lab (Moscow) **Prof. Thomas Rid** Professor for Security Studies, Department of War Studies, King´s College (London)
6:05 pm	**Panel 3** **Security Challenges and Remedies when building the Internet of Things**	Moderator: **Dr. Gregor Peter Schmitz** Bureau Chief, WirtschaftsWoche (Berlin) **Dr. Reinhard Ploss** CEO, Infineon Technologies (Munich) **Stefan Auerbach** Executive Management Board Member, Giesecke & Devrient (Munich) **Prof. Claudia Eckert** Director, Fraunhofer Institute for Applied and Integrated Security AISEC (Munich) **Robert Norris** Vice President, Head of Enterprise & Cyber Security EMEIA, Fujitsu (London) **Rich Baich** Chief Information Security Officer, Wells Fargo (San Francisco)
7:00 pm	**Closing Address**	**Ilse Aigner** Bavarian State Minister for Economy and Technology, Energy and Media (Munich)
until 9:00 pm	**Reception and Networking Party**	

MCSC

MUNICH CYBER SECURITY
CONFERENCE **2017**

This conference is under the patronage of the Bavarian State Minister of Economic Affairs and Media, Energy and Technology, **Ilse Aigner**, and the Chairman of the Munich Security Conference, Ambassador **Wolfgang Ischinger**.

State Minister
Ilse Aigner

Ambassador
Wolfgang Ischinger

HOST: SECURITY NETWORK MUNICH

Dr. Walter Schlebusch

Chairman

Dr. Walter Schlebusch is Chairman of Security Network Munich and Member of the Advisory Board at Giesecke & Devrient (G&D). In his former role as CEO of G&D, Walter Schlebusch shaped and promoted the set-up of dedicated cyber security activities. He is a strong advocate of cyber security policies stressing the need for cooperation and innovation across all sectors in meeting digital challenges. Walter Schlebusch currently serves as the Industry Speaker for the Cyber Security Platform at the Center of Digitization.Bavaria (ZD.B) in Munich. He is a founding Member of United Europe, a pro-Europe Initiative of business people, politicians and analysts. He studied engineering and graduated from the technical university in Aachen, Germany.

CONFERENCE MODERATOR

Ulrich Schäfer

Chief Business Editor, Süddeutsche Zeitung (Munich)

Born in 1967 in Telgte, Ulrich Schäfer has been working for the Süddeutsche Zeitung since 2003, originally as Deputy Editor of the parliamentary office in Berlin. From 2007 to 2010 he was Chief Business Editor, together with Marc Beise, and went on to become Managing Editor of twelve regional editions of the Süddeutsche Zeitung. Since May 2013 he has again been Chief Business Editor. He commenced his career as a journalist at the Münstersche Zeitung, and later worked for SPIEGEL magazine as a reporter for the business section and the parliamentary office in Bonn and Berlin. He studied Economics in Münster, Germany and Journalism at the American University in Washington DC. He has written several books, among them 'The crash of Capitalism' (2008), 'The attack – How Islamic Terror blows up our Prosperity' (2011) and 'Digital Germany – our response to Silicon Valley' (2016).

SPEAKERS

His Excellency Andrus Ansip

Vice President, EU Commission and
former Prime Minister of Estonia (Brussels)

Andrus Ansip was appointed Vice-President of the European Commission with responsibility for the Digital Single Market in November 2014. Before moving to Brussels, he was a member of both the Estonian and European Parliaments. This followed almost nine years in Tallinn spent as Estonia's longest-serving Prime Minister, when Ansip worked with both centre-right and centre-left parties to lead three different coalition governments. During his time as Prime Minister, he also acted as chairman of Estonia's liberal Reform Party. Ansip first entered national politics in September 2004 when he became Minister of the Economy. Up to this point, his career was spent in Estonia's second largest city of Tartu where he was born in 1956. Ansip was Mayor of Tartu for six years after working in banking and business. A chemistry graduate from the city's university, Andrus Ansip is married with three children.

Dr. Helmuth Ludwig

Global Head of Information Technology,
Siemens (Munich)

Helmuth Ludwig is Global Head of Information Technology at Siemens. He has worked at Siemens for 26 years in various capacities in Germany and abroad, including serving as president of Siemens PLM Software and CEO of the Siemens Industry Sector in North America. He completed a degree in Engineering at the University of Karlsruhe before earning a Doctorate at Kiel University. He also holds a Master of Business Administration degree from the University of Chicago. Ludwig teaches International Corporate Strategy as an adjunct professor at Southern Methodist University in Dallas, Texas.

Prof. Dieter Kempf

President, Federation of German Industries, BDI (Berlin)

Dieter Kempf was born in Munich in 1953. After studying business administration from 1973 to 1978 in Munich, he worked at Arthur & Young (now Ernst & Young) from 1978 to 1991, becoming a partner in 1989. He then joined Datev in Nuremberg in 1991 as a Board Member, responsible for product and software development. From 1992 onwards, he served as Deputy Chairman of the Board. In 1996, he became Chairman, a position he held until March 2016. During Kempf's time at Datev, the company grew to one of Europe's largest IT service providers. From 2011 to 2015, Kempf served as President of BDI's member association Bitkom (Federal Association for Information Technology, Telecommunications and New Media). During this time, he was also Vice President of the BDI. Dieter Kempf was unanimously elected President of BDI as of January 2017. In addition, Kempf serves on various supervisory boards and advisory boards. He was made honorary professor of Friedrich-Alexander University of Erlangen-Nürnberg in 2005.

John Higgins

Director General, Digital Europe (Brussels)

John Higgins CBE is Director General of DIGITALEUROPE, the association for the digital technology industry in Europe. He is the public face of the digital sector in Europe and speaks regularly on platforms and at conferences throughout Europe and world-wide. After graduating from the University of East Anglia with an honours degree in Mathematics and gaining a post graduate Diploma in Accounting and Finance, John trained as a systems analyst, holding senior positions with Ernst & Young and working in Chicago with leading software company SSA. In 1995 he was appointed CEO of the Rocket Networks, a California based dot.com that provided the world's first online recording studios. He returned to the UK in 1998 and became Director General of the Computing Services and Software Association. John is President of the European Commission's Strategic Policy Forum on Digital Entrepreneurship and was recently elected to the Board of the European Internet Foundation. The Queen appointed him a Commander of the British Empire (CBE) in 2005 for his services to the UK IT industry. John is married to Ailsa; they have three adult daughters.

Arne Schönbohm

President, German Federal Agency for Information Security, BSI (Bonn)

Arne Schönbohm took up his new position as president of the Federal Office for Information Security (BSI) on 18. February 2016. Arne Schönbohm (born 1969 in Hamburg) studied international business administration at the International School of Management in Dortmund, as well as in London and Taipei. Between 1995 and 2008 he held several senior positions within EADS Germany, now Airbus, most recently as Vice President Commercial and Defence Solutions for EADS Secure Networks. From 2008 to 2016 he was Chief Executive Officer of BSS BuCET Shared Services AG (BSS AG), which advises companies and public authorities in the fields of digitalisation, cyber security and data protection. In addition to this activity, Arne Schönbohm served, beginning in August 2012, for more than three years as president of Cyber-Sicherheitsrat Deutschland e.V., a Berlin-based politically neutral association, that has set itself the task of advising companies, public authorities and policymakers on matters of cyber security and strengthening them for the fight against cybercrime. He is also the author of various books, including "Deutschlands Sicherheit – Cybercrime and Cyberwar" (2011).

Dr. Jane Holl Lute

Under-Secretary-General, United Nations (New York)

Ms. Lute currently serves as the UN's Special Coordinator on Improving United Nations Response to Sexual Exploitation and Abuse and also as the Special Adviser to the Secretary-General on the Relocation of Camp Hurriya residents outside of Iraq. From 2003-2009, Ms. Lute held various positions in UN peacekeeping and peacebuilding, most notably as Acting Under Secretary-General. Between 2009 and 2013, Ms. Lute was Deputy Secretary for the United States Department of Homeland Security and, prior to re-joining the UN, she was CEO of the Center for Internet Security. Ms. Lute served on the National Security Council staff under both President George H.W. Bush and President Bill Clinton and had a distinguished career in the United States Army. She has a Ph.D. in political science from Stanford University and a J.D. from Georgetown University. Ms. Lute has also held positions as EVP and COO of the United Nations Foundation and the Better World Fund and as Executive Director of the Carnegie Commission on Preventing Deadly Conflict.

Stefan Winners

Executive Board Member, Hubert Burda Media (Munich)

Since October 2012 Stefan Winners is member of the Executive Board of Hubert Burda Media, responsible for digital businesses. Stefan is member of several supervisory boards, i. e. XING AG, HolidayCheck Group AG (formerly TOMORROW FOCUS AG) and Giesecke & Devrient GmbH. From 2005 to 2012 he was CEO of TOMORROW FOCUS AG, one of Germany´s fast growing internet companies. For his commitment to the success of TOMORROW FOCUS he has received a SAUREN Golden Award as the Entrepreneur of the Year 2011. Prior to that, Stefan was in executive management positions for Vogel Media and Bertelsmann. He holds an MBA degree from the University of Passau and has completed AMP at Harvard Business School.

Masayuki Yamamoto

Group Senior Vice President, Factory Automation, Mitsubishi Electric Corp. (Tokyo)

Masayuki Yamamoto joined the CNC Department of Mitsubishi Electric Corp in Japan in 1981. Relocating to Germany in 1985, he worked for Mitsubishi Electric Europe GmbH. In 2011 he became General Manager of Mitsubishi's Nagoya Works in Japan. In 2014, he was named Senior Vice President of FA System Group at Mitsubishi Electric Corp. He is also responsible for the e-F@ctory Strategic Project and is serving as Co-Chief Examiner of Working Group1, Robot Revolution Initiative, Japan.

Steve Durbin

Chairman, Information Security Forum, ISF (London)

Steve Durbin is Managing Director of the Information Security Forum (ISF). His main areas of focus include strategy, information technology, cyber security and the emerging security threat landscape across both the corporate and personal environments. He is a frequent speaker and commentator on technology and security issues. Formerly at Ernst & Young, Steve has been involved with IPOs, mergers and acquisitions of fast-growth companies across Europe and the USA, and has also advised a number of NASDAQ and NYSE listed global technology companies. Steve has considerable experience working in the technology and telecoms markets and was previously senior vice president at Gartner. As global head of Gartner's consultancy business he developed a range of strategic marketing, business and IT solutions for international investment and entrepreneurial markets.

Prof. Michael Dowling

Professor for Innovation and Technology Management, University of Regensburg (Regensburg)

Prof. Dr. Michael Dowling is Professor for Innovation and Technology Management in the Faculty of Business and Economics at the University of Regensburg, Germany. He is also Chairman of the Board and a member of the Research Committee of MÜNCHNER KREIS, a non-profit association providing orientation for decision makers in the digital world Prof. Dowling has worked at the International Institute for Applied Systems Analysis in Laxenburg, Austria, with McKinsey & Company in Düsseldorf, Germany and has been a visiting scholar at the Universities of Munich and Erlangen-Nuremberg. In addition to this, he has been an Assistant Professor and Associate Professor with tenure at the University of Georgia, USA. He holds a Master of Science Degree from Harvard University and a Ph.D. in Business Administration from the University of Texas at Austin. His research interests include the strategic management of technology, high technology entrepreneurship, and the relationships between technology, public policy and economic development.

Evert Dudok

General Manager, Airbus Defence and Space (Munich)

Evert Dudok is EVP Communications, Intelligence & Security and Chairman of the Managing Board at Airbus Defense and Space GmbH. He has over 30 years' experience working in the space industry including roles such as CEO of Astrium Services, CEO of Astrium Satellites, Director of Earth Observation, Navigation & Science at EADS Astrium and also as President of Space Transportation at EADS Astrium. The Dutchman is a trained electrical engineer and holds a degree in Electrical Engineering from the Technical University of Eindhoven. He is married with two children.

Dr. Rolf Reinema

Head of Technology-Field IT-Security, Siemens (Munich)

Dr. Rolf Reinema received his diploma degree in Computer Science from University Erlangen-Nuremberg and his doctoral degree from Darmstadt University of Technology. In the past, he has been leading the software development department of MEDIATEC GmbH and acted as the Vice Director of the Fraunhofer Institute for Secure Information Technology. From 2006 to 2014 he was responsible for all security disciplines within Vodafone (Germany and Central European Region). In May 2014 he moved to Siemens where he is now leading the global technology field IT-Security, which drives the further evolvement of IT-Security within Siemens' IT as well as its manifold products. He also operates the CERT and the CSIRT functions.

Dr. Elmar Pritsch

President, Corporate Sector Information Systems and Services, Bosch (Stuttgart)

Since January 2015, Dr. Elmar Pritsch has been president of the Corporate Sector Information Systems and Services of Robert Bosch GmbH. He was born in Aachen, Germany, on April 28, 1969. He is married and has two children. After leaving school in 1988, he did his military service with the air force. In 1995, he completed his undergraduate studies in computer science at RWTH University of Aachen, which he followed with a PhD on flexible access concepts for distributed information systems. He acquired an MBA at Edinburgh Business School, United Kingdom. He is a member of the supervisory board of BSH Hausgeräte GmbH in Munich, a member of the board of Cyber Security Sharing and Analytics e.V. (CSSA) in Berlin, and a trustee of Informatik Forum Stuttgart e.V. (Infos).

Andrew Ginter

Vice President Industrial Security, Waterfall Security Solutions (Rosh Ha'ayin, Israel)

Andrew Ginter is the Vice President of Industrial Security at Waterfall Security Solutions. He spent 30 years leading product development teams producing networking, industrial control systems, IT/OT middleware, and industrial cyber-security products. Andrew is the author of "SCADA Security – What's broken and how to fix it" and a co-author of the Industrial Internet Consortium Security Framework. He is also the co-chair of the ISA SP-99 WG1 working group, and represents Waterfall Security Solutions to NIST, NERC-CIP, IIC, and other cyber-security standards bodies and regulators. Andrew holds degrees in Applied Mathematics and Computer Science, and is an Adjunct Assistant Professor at Michigan Technological University.

Ian Levy

Technical Director, National Cyber Security Centre
(part of GCHQ) (London)

Ian Levy is the technical director of the UK's new National Cyber Security Centre, and was previously technical director cyber security and resilience at GCHQ. He is the UK Government's "chief cyber security geek". Together, the NCSC's new structure and strategy mark a fundamental change in the UK's approach to cybersecurity. That approach, he says, isn't just about protecting Government or critical infrastructure or big industry. It's about a national scale approach to cybersecurity bringing unique challenges, but more importantly opportunities to do things differently.

Dr. Gregor Peter Schmitz

Bureau Chief, WirtschaftsWoche (Berlin)

Gregor is currently Berlin Bureau Chief of WirtschaftsWoche, Germany's leading business magazine. Prior to that he was Europe correspondent for DER SPIEGEL, Germany's newsmagazine, in Brussels. From 2007 to 2013, he served as Washington correspondent for SPIEGEL and SPIEGEL ONLINE, covering the White House and two presidential campaigns. Gregor was also part of SPIEGEL's WikiLeaks and NSA team and was awarded the Arthur F. Burns and Henri-Nannen-Prize for his reporting. His first book, co-authored with George Soros ("Wetten auf Europa - Warum Deutschland den Euro retten muss, um sich selbst zu retten"), was a SPIEGEL bestseller. Before joining SPIEGEL, Gregor headed the Brussels Office of Bertelsmann Foundation, a think tank. He is a graduate of Harvard University (MPA) and Cambridge University (MPhil) and holds a law degree from Munich University. He also studied at Sciences-Po Paris and earned a doctorate in political science. In addition to his writing, Gregor is a frequent radio and TV commentator.

Prof. Thomas Rid

Professor for Security Studies, Department of War Studies,
King's College (London)

Thomas Rid is a professor in the Department of War Studies at King's College London. His most recent book, Rise of the Machines (Maschinendämmerung), tells the sweeping story of how cybernetics, a late-1940s theory of machines, came to incite anarchy and war half a century later. His articles appear in major English, Chinese, Russian, Japanese, French, and German peer-reviewed journals as well as magazines and news outlets. His recent research article, 'Attributing Cyber Attacks', was designed to explain, guide, and improve the identification of network breaches (Journal of Strategic Studies 2015). In October 2016 he published one of the most-noted texts on the US election interference in Esquire magazine, 'How Russia Pulled Off the Biggest Election Hack in US History'. He holds a PhD from Humboldt University in Berlin.

Eugene Kaspersky

Chairman and CEO, Kaspersky Lab (Moscow)

Eugene Kaspersky is a world-renowned cybersecurity expert and successful entrepreneur. He is the chairman and CEO of Kaspersky Lab, the world's largest privately-held vendor of endpoint protection and cybersecurity solutions. Eugene began his career in cybersecurity accidentally when his computer became infected with the 'Cascade' virus in 1989. Eugene's specialized education in cryptography helped him analyze the encrypted virus, understand its behavior, and then develop a removal tool for it. In 1997 Eugene and a group of associates founded Kaspersky Lab, which now has more than 3600 employees and operates all over the world.

Dr. Reinhard Ploss

Chief Executive Officer, Infineon Technologies AG (Munich)

Reinhard Ploss has been a member of the Management Board of Infineon Technologies AG since 2007. He has been CEO since October 1, 2012. Reinhard Ploss was born on December 8, 1955 in Bamberg. He studied process engineering at the Technical University of Munich and in 1986 received his doctorate. He began his career at Infineon (Siemens AG until 1999) in the same year.

Stefan Auerbach

Executive Management Board Member,
Giesecke & Devrient (Munich)

Stefan Auerbach has been a Member of the Management Board at Giesecke & Devrient (G&D) since 2013. He is Group Executive for the global Mobile Security business.
As a one-stop-shop provider of security technology, software and services, G&D supplies customers with innovative digital security solutions, focusing on securing the mobile connected society. Mr. Auerbach looks back on 30 years of experience in the telecommunications and IT industry. He held several management positions in Nixdorf Computer AG and Siemens Nixdorf. After the spin-off of Wincor Nixdorf AG from the Siemens Group in 1999, Auerbach was appointed member of the Wincor Nixdorf Management Board responsible for the global Services Division. From 2005 to 2012, he assumed responsibility for global banking business. Stefan Auerbach holds a MBA degree from Massachusetts Institute of Technology. Since 2015, he has been a member of the BITKOM e.V. Management Board and the BDI Security Commission.

Prof. Claudia Eckert

Director, Fraunhofer Institute for Applied and Integrated Security AISEC (Munich)

Professor Dr. Claudia Eckert is Director of Fraunhofer Institute for Applied and Integrated Security AISEC in Munich. Her professorship at Technische Universität München (TUM) focuses on Security in Computer Sciences. She holds the chair of the IT Security Department. As a member of various national and international industrial and scientific advisory committees she advises companies, trade associations and public authorities in all aspects of IT security. As a member of expert committees she is involved in the design of the technical and scientific environment in Germany and in the design of scientific programs on EU level.

Rob Norris

Vice President, Head of Enterprise & Cyber Security EMEIA, Fujitsu (London)

Rob has worked for Fujitsu Services Since December 2007. In April 2016 Rob was made Head of Fujitsu's EMEIA Security business and is charged with ownership of the Security P&L and growing out the capability across Europe. Prior to joining Fujitsu Rob held various Senior Management roles and from 2001 was the Services Director for an independent Security start-up company called Vistorm Ltd. At Vistorm Rob was responsible for developing the Security Support, Managed & Professional Services propositions, helping to turn a dot com start-up company from a loss to Security revenues in excess of £50M. Vistorm was subsequently sold to EDS in April 2008 and is now part of HP Security Services in the UK. Rob has worked in the IT Industry since 1988, working for organisations such as Philips Business systems Compaq Computer Ltd. (Philips were taken over in 1992 by Digital Equipment Company who were subsequently bought out by Compaq Computer Ltd). Rob sits as an executive committee member of the Prince's Trust Business In the Community (BITC), Business Emergency Response Group (BERG) Cyber response team.

Rich Baich

Chief Information Security Officer, Wells Fargo (San Francisco)

Rich Baich is Wells Fargo's Chief Information Security Officer. Prior to joining Wells Fargo in 2012, Rich was a Principal at Deloitte & Touche where he led the Global Cyber Threat and Vulnerability Management practice. Rich's other security leadership roles include Naval Information Warfare Officer for the National Security Agency (NSA), Senior Director for Professional Services at Network Associates (now McAfee) and after 9/11, as Special Assistant to the Deputy Director for the National Infrastructure Protection Center (NIPC) at the Federal Bureau of Investigation (FBI). Rich retired after 20+ years of military service.
Rich received the "Information Security Executive of the Year in Georgia" award in 2004 for his security and pioneering leadership. In 2005 he authored Winning as a CISO, a leadership sourcebook for security executives. Rich was appointed the Chair for the Financial Services Sector Coordinating Council (FSSCC) in 2016 and also serves as an advisor for the 44th and 45th Presidents' Commission on Cybersecurity.

INFORMATION SECURITY FORUM (ISF)

Founded in 1989, the Information Security Forum (ISF) is an independent, not-for-profit association of leading organisations from around the world. It is dedicated to investigating, clarifying and resolving key issues in cyber, information security and risk management and developing best practice methodologies, processes and solutions that meet the business needs of its Members. ISF Members benefit from harnessing and sharing in-depth knowledge and practical experience drawn from within their organisations and developed through an extensive research and work program.

ISF Threat Horizon

THREAT HORIZON 2016 - 2018

TECHNOLOGY ADOPTION DRAMATICALLY EXPANDS THE THREAT LANDSCAPE

ABILITY TO PROTECT IS PROGRESSIVELY COMPROMISED

GOVERNMENTS BECOME INCREASINGLY INTERVENTIONIST

2018

DISRUPTION DIVIDES AND CONQUERS

2017

COMPLEXITY CONCEALS FRAGILITY

COMPLACENCY BITES BACK

2016

FAILURE TO DELIVER THE CYBER RESILIENCE PROMISE

CONFIDENCE IN ACCEPTED SOLUTIONS CRUMBLES

NO-ONE LEFT TO TRUST IN CYBERSPACE

2016

1 Nation-state backed espionage goes mainstream
2 A Balkanized Internet complicates business
3 Unintended consequences of state intervention
4 Service providers become a key vulnerability
5 Big data = big problems
6 Mobile apps become the main route for compromise
7 Encryption fails
8 The CEO gets it, now you have to deliver
9 Skills gap becomes a chasm
10 Information security fails to work with new generations

2017

1.1 Supercharged connectivity overwhelms defences
1.2 Crime syndicates take a quantum leap
1.3 Tech rejectionists cause chaos
2.1 Dependence on critical infrastructure becomes dangerous
2.2 Systemic vulnerabilities are weaponised
2.3 Legacy technology crumbles
2.4 Death from disruption to digital services
3.1 Global consolidation endangers competition and security
3.2 Impact of data breaches increases dramatically

2018

1.1 The IoT leaks sensitive information
1.2 Opaque algorithms compromise integrity
1.3 Rogue governments use terrorist groups to launch cyber attacks
2.1 Unmet board expectations exposed by a major incident
2.2 Researchers silenced to hide security vulnerabilities
2.3 Cyber insurance safety net is pulled away
3.1 Disruptive companies provoke governments
3.2 Regulations fragment the cloud
3.3 Criminal capabilities expand gaps in international policing

ACKNOWLEDGMENTS

This conference was organised by:

Peter Möhring
Security Network Munich
Giesecke & Devrient

Andreas Pritchard
Giesecke & Devrient

The Munich Cyber Security Conference Series was originally conceived and initiated by Oliver Rolofs and Tom Köhler in cooperation with Security Network Munich.

Oliver Rolofs
Roland Berger

Thomas Köhler
EY

The **Munich Cyber Security Conference** provides a forum for top-level industry decision makers to meet and discuss the necessary responses to today's cyber security challenges. We are delighted to welcome you to the Conference and to be part of this vibrant community.

SECURITY NETWORK MUNICH
Germany's leading expert network for information security

Since 2012, Security Network Munich (Sicherheitsnetzwerk München) has been bringing together the leading players and organisations in the field of information and cyber security. As well as fostering industry cooperation through joint research and innovation projects, members meet regularly to discuss pressing industry challenges with government and research institutions. Today, the Network comprises over 100 firms and engages around 800 people through our working groups, shared projects, and events.

We also convey the industry´s insights and concerns to a political and broader societal audience, providing consulting expertise on cyber strategy to state and federal government and, through education and communication, spreading awareness of the importance of information security.

Security Network Munich is currently a network project of the Center Digitisation.Bavaria (Zentrum Digitalisierung.Bayern, www.zd-b.de) and is jointly supported by industry members and the Bavarian Ministry of Economic Affairs and Media, Energy and Technology. Through extensive collaboration, it is our aim to keep Munich and Bavaria at the forefront of innovation and technological advancement. Only by dealing effectively with threats can the advantages of digitalisation be fully realised.

For more information on the network and membership, please visit www.it-security-munich.net or contact Peter Möhring (peter.moehring@gi-de.com).

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